

REMARKSAmendments

In the descriptive part of the specification, the status of two applications has been updated. In addition, a correction has been made to the number of a patent referred to. Due to a typographical error, U.S. Patent No. 5,880,668, which refers to a modified polyolefin with a carboxylic acid derivative grafted onto the polymer for use with certain types of foils, was incorrectly identified as "U.S. Patent No. 5,888,068". In fact, U.S. 5,888,068 is directed to an intracoronally supported pontic, which clearly is not related to polymers or metal foils.

Claims 11 to 13 have been canceled, as they were allowed in the parent application.

The amendments to the specification and claims are shown on the attached page captioned "Version with Markings to Show Changes Made".

Disclosure Under 37 CFR § 1.56

In fulfilling the duty of candor and good faith, the following documents are hereby disclosed to the Patent Office in accordance with 37 CFR § 1.56. It is not admitted that the information in the listed documents is material to patentability as defined in 37 CFR § 1.56(b). The Examiner is requested to consider the documents in the examination of this application.

Accompanying this statement is a Form PTO-1449 in duplicate on which the documents are listed. The Examiner is requested to return an initialed and signed copy of the form once the documents have been considered.

The following documents were cited by Applicants during the prosecution of the parent application, Application No. 09/606,825, from which the present application draws priority. In accordance with 37 CFR § 1.98(d), copies of these documents are not being submitted as Applicants believe that copies have been made available to the Examiner during the prosecution of the parent application. If this is incorrect, Applicants will readily supply copies. These documents are, however, listed on the accompanying Form PTO-1449.

Document number	Date	Name	Class	Sub-class
3,858,144	12/1974	Bedard et al..	338	22 R
4,237,441	12/1980	van Konynenburg et al.	338	22 R
4,304,987	12/1981	van Konynenburg	219	553
4,426,633	01/1984	Taylor	338	25
4,514,620	04/1985	Cheng et al.	219	553
4,534,889	08/1985	van Konynenburg et al.	252	511
4,545,926	10/1985	Fouts et al.	252	511
4,689,475	08/1987	Matthiesen	219	553
4,724,417	02/1988	Au et al.	338	22 R
4,774,024	09/1988	Deep et al.	252	511
4,800,253	01/1989	Kleiner et al.	219	553
4,857,880	08/1989	Au et al.	338	22 R
4,884,163	11/1989	Deep et al.	361	58
4,907,340	03/1990	Fang et al.	29	610.1
4,924,074	05/1990	Fang et al.	219	548
4,935,156	06/1990	van Konynenburg	219	553
5,049,850	09/1991	Evans et al.	338	22 R
5,250,228	10/1993	Baigrie et al.	252	511
5,280,263	01/1994	Sugaya	338	22R
5,286,527	02/1994	Blum et al.	427	407.1
5,378,407	01/1995	Chandler et al.	252	513
5,451,919	09/1995	Chu et al.	338	22 R
5,582,770	12/1996	Chu et al.	252	511
5,691,689	11/1997	Smith et al.	338	22R
5,747,147	05/1998	Wartenberg et al.	428	209
5,801,612	09/1998	Chandler et al.	338	22 R
5,831,510	11/1998	Zhang et al.	338	22 R
5,852,397	12/1998	Chan et al.	338	22 R
5,856,773	01/1999	Chandler et al.	338	22R
5,864,280	01/1999	Hall	338	22R
5,864,281	01/1999	Zhang et al.	338	22 R
5,874,885	02/1999	Chandler et al.	338	22
5,880,668	03/1999	Hall	338	22 R
5,908,542	06/1999	Lee et al.	205	152

5,940,958	08/1999	Shaw Jr. et al.	338	22R
6,086,743	07/2000	Ameen et al.	205	183
6,104,587	08/2000	Banich et al.	361	106
6,248,401	06/2001	Chiang et al.	427	255.7
6,358,438	03/2002	Isozaki et al.	252	511

## FOREIGN DOCUMENTS

Document number	Date	Country	Class	Sub-class
0952590A	10/1999	Europe		
0952591A	10/1999	Europe		
3707494A	03/1988	Germany		
WO95/34081	12/1995	International		
WO97/45845	12/1997	International		
WO99/05689	02/1999	International		
62-113402	05/1987	Japan		
H4-18681	03/1992	Japan		
2698995	09/1997	Japan		

## OTHER DOCUMENTS

Details of Document
International Search Report for International Application No. PCT/US01/02600 dated May 11, 2001
International Search Report for International Application No. PCT/US01/02601 dated July 29, 2002
U.S. Patent Application No. 09/364,504 (Isozaki et al, filed July 30, 1999)
P. deGroot and L. Deek, J. Modern Optics, 1995, vol. 42, pp. 389-401.

The following additional documents were cited by the Examiner during the prosecution of the parent application. Copies of these documents are being sent.

Document number	Date	Name	Class	Sub-class
4,482,801	11/1984	Habata et al.	219	540
5,955,936	09/1999	Shaw Jr. et al.	338	22R
6,157,289	12/2000	Kojima et al.	338	22R

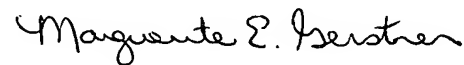
Fee

Applicant believes that because this Disclosure Statement is being submitted with this application, no fee is due. If this is incorrect, please charge any necessary fee to Deposit Account No. 18-0560.

Conclusion

It is believed that this application is now in condition for allowance and such action at an early date is earnestly requested. If, however, there are any outstanding issues which can be usefully discussed by telephone, the Examiner is asked to call the undersigned.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADEIn the Specification

*The following new paragraph has been added before "BACKGROUND OF THE INVENTION" on page 1, line 3:*

Cross-Reference to Related Applications

This application is a continuation application of copending, commonly assigned Application No. 09/606,825, filed June 28, 2000, the disclosure of which is incorporated herein by reference.

*The paragraph beginning at page 1, line 28 has been amended as follows:*

Metal foils having microrough surfaces can give excellent results when used as electrodes in contact with conductive polymers. U.S. Patent No. 4,689,475 discloses the use of metal foils that have surface irregularities, e.g. nodules, which protrude from the surface by 0.1 to 100  $\mu\text{m}$  and have at least one dimension parallel to the surface which is at most 100  $\mu\text{m}$ . U.S. Patent No. 4,800,253 discloses the use of metal foils with a microrough surface which comprises macronodules which themselves comprise micronodules. U.S. Patent No. 5,874,885 discloses the use of a metal electrode made of more than one type of metal with particular surface characteristics. Other documents which disclose the use of metal foils having rough surfaces, but which do not disclose the characteristics of the foils, are Japanese Patent Kokai No. 62-113402 (Murata, 1987), Japanese Patent Kokoku H4-18681 (Idemitsu Kosan, 1992), and German Patent Application No. 3707494A (Nippon Mektron Ltd., 1988). U.S. Patent No. 5,880,668 [5,888,068] discloses the use of a modified polyolefin with a carboxylic acid derivative grafted onto the polymer in combination with certain foils. The disclosure of each of these documents is incorporated herein by reference.

*The paragraph beginning at page 3, line 20 has been amended as follows:*

Additionally, an adhesion promoting layer such as a coupling agent can be used between the foil and the conductive element. The use of adhesion promoting layers in combination with foils having certain roughness characteristics is described in copending commonly assigned Application No. 09/606,821 (Becker et al.) [\_\_\_\_\_] (docket No. MP1715-US1)], filed contemporaneously with this application, the disclosure of which is incorporated herein by reference.

*The paragraph beginning at page 9, line 15 has been amended as follows:*

Suitable conductive polymer compositions are disclosed for example in U.S. Patents Nos. 4,237,441 (van Konynenburg et al), 4,304,987 (van Konynenburg), 4,514,620 (Cheng et al), 4,534,889 (van Konynenburg et al), 4,545,926 (Fouts et al), 4,724,417 (Au et al), 4,774,024 (Deep et al), 4,935,156 (van Konynenburg et al), 5,049,850 (Evans et al), 5,378,407 (Chandler et al), 5,451,919 (Chu et al), 5,582,770 (Chu et al), 5,747,147 (Wartenberg et al), and 5,801,612 (Chandler et al), and U.S. Patent Application No. 09/364,504 (Isozaki et al, filed July 30, 1999), now U.S. Patent No. 6,358,438. The disclosure of each of these patents and applications is incorporated herein by reference.

In the Claims

*Claims 11 to 13 have been canceled.*